Severe local storms, May, 1931-Continued

Place	Date	, Time ,	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks	
Cumberland County, Pa. (western)	19	P. m		• : -	10,000	Severe thunder-	Barn burned; many small buildings damaged	
(western).	,	1.111		7		storm.	- 1 1 1 1 1 1	Bureau.
Comanche, Tex	: 19 : 19		1,760		2, 500 1, 500	HailWind	Crops and buildings damaged	Do. Do:
Mobile, Ala.	20					Thundersquall	Trees blown down; electric service interrupted. Character of damage not reported.	Do.
Mobile, Ala. Clay County, Nebr. (south-	21	3:30 a. m	3 mi.		5,000	Wind	Character of damage not reported	Do.
western). Roxana to Skellytown, Tex	21	2:30 p. m.			40,000		Crops and other property severely damaged	Do,
Albany, Tex	21	6:30 p. m			15, 000	Hail	Buildings damaged; minor crop injury	Do.
Cotton County, Okla.	: 21 .	7 p. m	880→1.,760		52,000	do:,,,,,,,,,	Chief damage to crops; path 20 miles long Some damage to crops and other property	Do. Do.
Latimer County, Okla. (north- ern).	21	11 p. m	2, 640		3, 000	do	Some damage to crops and other property	<b>D</b> 6.
Virginia (southwestern)	22	2-5 p. m	. 2–18 mi.	l	51,000	Hail and wind	Heavy crop loss	Do.
Victor, Dublin, and Carlton,	22	8 p. m	9 ml.		40,000	Hail	Crops destroyed or injured; houses damaged;	Do.
Tex. Anna, Ill. (near)	22	ļ. i	4 4		,	do	poultry and lambs killed. Injury to property slight to severe	Do.
Caldwell and Burke Counties,	22	35			.50 000c	do l	Crops severely damaged: roofs Dierced	Do.
N C			1. 1.		, , , , , ,		Much small grain destroyed; replanting of	Do.
Stanley County, N. C	22					do	cotton necessary; gardens total loss.	D0.
Atchison County, Kans	24	11-12 p. m.	1,300	 	7,000	Hail and wind	Injury chiefly to apples, pears, and gardens;	Do.
Waukesha and Racine Coun-	24		10 mi.		5, 000	Hail	path 3 miles long. Roofs damaged; trees blown down; fruit in-	Do.
ties, Wis.			i				iured.	
Snyder, Tex	25	4 p. m	··		3,000	do	Crops damaged.	Do.
Lancaster, Ohio Crozet, Va., and vicinity	25 26	4:30 p. m 2:30–6:30	1 700		40.000	Probably tornado. Hail	Character of damage not reported  Trees, fruits, and gardens severely hurt; path	Do. Do.
Clozet, va., and væmrty	20	p. m.	1,700		' '		7 miles long.	
Moorhead (10 miles southeast)	27	4:15 p. m		2	200,000	Tornado	Passenger train lifted from rails; several build-	Do.
to Gary, Minn.				ĺ			ings wrecked; farm machinery damaged; livestock injured or killed; some fields re-	
				ŀ			quire replanting; 57 persons injured; path	
		,	ſ`	l	1	[ .	40 miles long.	
Jewell, Rooks, and Osborne	27	8-11 p. m			<i>-</i>	Hail	Damage chiefly to wheat	Do.
Counties, Kans. Thomas and Grady Counties,	27	,	~- <b>~</b>	, <b>.</b>	2,000	,,do	Crops injured over path several miles long	Do.
Ga. Harlan County, Nebr	90	20 0	1-2 mi.		75, 000	Wind	20 barns damaged; many windmills wrecked;	Do.
Harian County, Nepr	28	28. 111	1		75,000		path 30 miles long.	
Scott County, Iowa	28	2:30 p. m	490		2, 500	Tornado and wind	Character of damage not reported; path 2 miles long.	Do.
Des Moines County, Iowa	- 28	3 p. m				Tornado and hail	No details reported; path 4 miles long	Do.
Oneida. Ill	28	4:30 p. m			5, 000	Wind	Buildings damaged trees uprooted	Do.
Galva, Ill. (south)	28					Severe thunder- storm and wind.	Farm buildings blown down or unroofed; trees uproofed.	Do.
Dawson, N. Mex	29	2:30 - 3:30	2 mi.		1,000		Gardens and flowers ruined; too early for	Do.
	00	p.m.		l.		do	Severe damage, character not reported	Do:
Field, N. Mex. (near) Charlottesville, Va. (near)	29 30	2-6 p. m 3:05 p. m				Tornado	Chief damage to airplane hangar and 3 planes	Do.
Grove City, Pa	30	6 p. m.			5,000	Thundersquall	College buildings damaged	Do.
Bradford County, Pa	30	P. m				Thunderstorm and	Damage chiefly to grops	Do.
			l	I		wind.	1	i

## RIVERS AND FLOODS

By Montrose W. Hayes, in charge River and Flood Division

Overflows in the southern part of the Atlantic slope drainage caused miscellaneous damage to the extent of about \$8,000. Timely forecasts were issued and were generally heeded, which reduced the losses to a minimum.

Minor local floods in the Kansas, Canadian, Guadalupe, Pecos, and Colorado Basins caused no damage of consequence.

Stages are very low throughout most of the Mississippi River system, and many stations report the lowest of record for May. Streams are also low in the Pacific slope drainage.

Final reports of the overflows in the Columbia River Basin in March and April indicate the flood damage was about \$10,000 along streams where a flood-warning service is maintained. Along streams where there is no warning service the damage amounted to about \$50,000. Savings effected through the warnings were estimated at \$25,000. At Walla Walla, Wash., there was a severe flood in Mill Creek, destroying or damaging property to the extent of \$500,000.

## Table of flood stages in May, 1931

	<del>-</del>	1		-	<del></del>
River and station	Flood	Above flood stages—dates		Creat	
	stage	From-	То-	Stage	Date
ATLANTIC SLOPE DBAINAGE  Tar: Rocky Mount, N. C. Neuse: Smithfield, N. C. Cape Fear: Elizabethtown, N. C. Peedee: Cheraw, S. C. Mars Bluff Bridge, S. C. Saluda: Peizer, S. C. Santee: Rimini, S. C. Oconee: Milledgeville, Ga. Altamaha: Charlotte, Ga. MISSISSIPPI SYSTEM	27 17 7 12 22	10 24 23 23 25 21 9 24 5	10 26 26 24 29 22 10 27 5	Feet 9.0 14.8 26.6 28.6 18.4 7.4 12.0 12.7 23.5	27 5
Missouri Basin Solomon: Beliot, Kans Republican: Concordia, Kans Arkansas Basin	18 8	6	6 5	20. 4 8. 3	6 5
Canadian: Logan, N. Mex  WEST GULF OF MEXICO DRAINAGE	4	$   \left\{                                  $	2 4 30	5. 6 5. 0 6. 0	
Guadalupe: Victoria, Tex		{ 5 1 5	5 <b>2</b> 5	16. 2 11. 6 11. 0	
Colorado: Parker, Ariz	7	24	31	7.9	25-26